Potential of tidal energy

1868. SHRI THANGA TAMIL SELVAN: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether any technology has been tested for obtaining ocean energy in the country;

(b) if so, the details thereof;

(c) whether the ocean energy potential in the country has been identified; and

(d) if so, the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) and (b) A one MW floating Ocean Thermal Energy Conversion (OTEC) power plant is in the final stages of commissioning near Tuticorin port in Tamilnadu. A 50 kW plant based on wave energy has been set up at Vizhinijam harbour in Kerala. A Detailed Project Report for a 3 MW Tidal Power Project in Sundarbans area of West Bengal has been prepared.

(c) and (d) The three identified sites for Tidal Power in the country are Gulf of Cambay & Gulf of Kutch in Gujarat and Delta of Ganga in Sundarban area of West Bengal with a potential of 12000 MW, 3000 MW and 100 MW, respectively.

Installation of Solar Water Heating System in Hospitals and Hotels

1869. DR. DASARI NARAYANA RAO: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether Government has requested all the States and Union Territory Governments to issue directives for installation of Solar Water heating systems in Government hospitals, hotels etc. where need for hot water exists; and

(b) if so, the response of States and Union Territories with regard thereto?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) Yes Sir. In April, 1994, the Ministry of Urban Development requested the State/Union Territory Governments to consider issuing suitable directives to the local bodies under their control for modifying the building bye-laws with a view to make the installation of solar water heating systems mandatory in hotels and hospitals. In order to assist the local bodies in this respect, a model regulation/bye-laws has also been drafted and has been circulated in April, 1999 to all State and Union Territory Governments. The model regulation/bye-laws, when incorporated by the local bodies in their existing building bye-laws, will make it mandatory for the following categories of buildings to have solar assisted water heating systems:

(i) Hospitals & Nursing Homes

(ii) Hotels, Lodges, and Guest Houses

(iii) Hostels of Schools, Colleges, Training Centres

(iv) Barracks of armed forces, paramilitary forces and police

(v) Individual Residential Building having more than 150 sq. mt. plinth area

(vi) Functional Buildings of Railway Stations and Air Ports like waiting rooms, retiring rooms, rest rooms, inspection bungalows and catering units.

(vii) Community Centres, Banquet Halls, Barat Ghars, Kalyan mandaps and buildings for similar use.

(b) The Government of Andhra Pradesh, Haryana, Himachal Pradesh, Madhya Pradesh, Punjab, Rajasthan and the Union Territory of Dadra and Nagar Haveli have made installation of solar water heaters mandatory in functional buildings in the State sector. Further response received on amendment to the building bye-laws for making solar assisted water heating systems mandatory in various categories of buildings is given in the Statement.

Statement

Response of the State/UTs to the request for the installation of Solar Assisted Water Heating System (SAWHS) in functional buildings by Amending Building Bye Laws

Name of the State/ Union Territory	Response of the State/UT
Tamil Nadu	The Department of Urban Development of the Govt. of Tamil Nadu instructed the Director (Municipal Admn.), Director (Town and Country Planning) and Commissioners of Chennai Madurai & Coimbatore to suitably amend building rules to provide for mandatory provisions for the installation of SAWHS in hotels and hospitals.
West Bengal	Instructed all urban local bodies (ULB) to modify the building bye laws, incorporating the provisions for the installation of SAWHS in all functional buildings.
Manipur	Circulated the request of Govt. of India for the installation of SAWHS in all functional buildings in the State to all the concerned Departments for taking necessary action.
Bihar & Jharkhand	Instructed the Regional Development Authorities and the Municipal Corporations at Ranchi, Gaya, Muzaffarpur, Patna & Bhagalpur to take necessary action for the installation of SAWHS in all the functional buildings.
Goa	A Committee was constituted for the preparation of Unified Building Bye Laws. The Committee in its report has recommended to the State Govt. to consider the installation of SAWHS in functional buildings.
Himachal Pradesh	The Model Regulation/Building Bye Laws for the installation of SAWHS in functional buildings are

Name of the State/ Union Territory	Response of the State/UT
	circulated among all the municipal bodies for taking necessary action.
Kerala	It will be taken into account while formulating proposals for amending the Kerala Municipality Building Rules, 1999
Madhya Pradesh	The Model Regulation/Building Bye Laws for the installation of SAWHS in functional buildings have been circulated to all the 334 ULBs.
Mizoram	The State Government has yet to take a decision in the matter.
Rajasthan	The State Govt. has incorporated the provisions in the model regulations/building bye-laws for the installation of SAWHS in functional buildings in their new Building Bye Laws.
Tripura	The draft rules are under finalization.
Chandigarh	Directions have already been issued for making installation of SAWHS compulsory in all functional buildings.
Delhi	The amendment to the Building Bye Laws has been recommended by the Delhi Govt. to make SAWHS mandatory in certain categories of buildings.
Lakshadweep	Installation of SAWHS is not necessary as this region has a climate which does not require installation of SAWHS.
Pondicherry	Draft legislation incorporating the Building Bye Laws is under consideration.
Karnataka	Draft Building Bye Laws of Bangalore have been prepared which will be finalized after hearing the public comments as per the provision of the Karnataka Municipal Corporation Act. As regards other towns/cities in the State, action is being initiated to suitably amend the building bye-laws.